

**NWS: MIDDLE TANANA VALLEY- INCLUDING...FAIRBANKS... 325 AM ADT  
SAT APR 5 2008**

**TODAY...**SNOW LIKELY...POSSIBLY BECOMING MIXED WITH OR CHANGING TO RAIN IN THE AFTERNOON. SNOW ACCUMULATION UP TO 1 INCH. HIGHS AROUND 35. WEST WINDS 5 TO 10 MPH. .

**TONIGHT...**MOSTLY CLOUDY WITH SCATTERED SNOW SHOWERS. LOWS AROUND 20. WEST WINDS 5 TO 10 MPH.

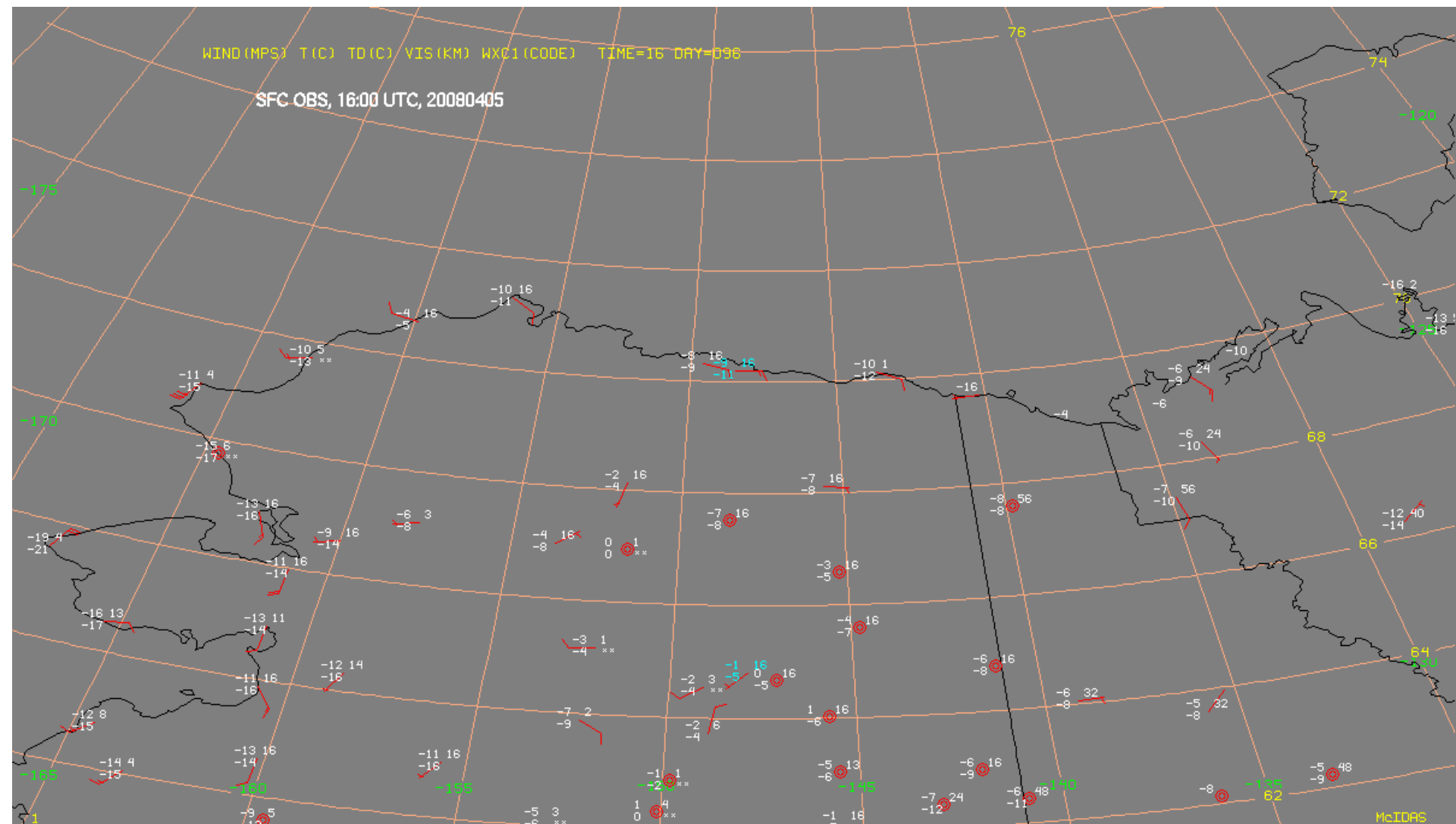
**.SUNDAY...**MOSTLY CLOUDY WITH SCATTERED FLURRIES. HIGHS 30 TO 35. WEST WINDS 5 TO 10 MPH. **.SUNDAY NIGHT...**MOSTLY CLOUDY. SCATTERED FLURRIES. LOWS AROUND 15. LIGHT WINDS.

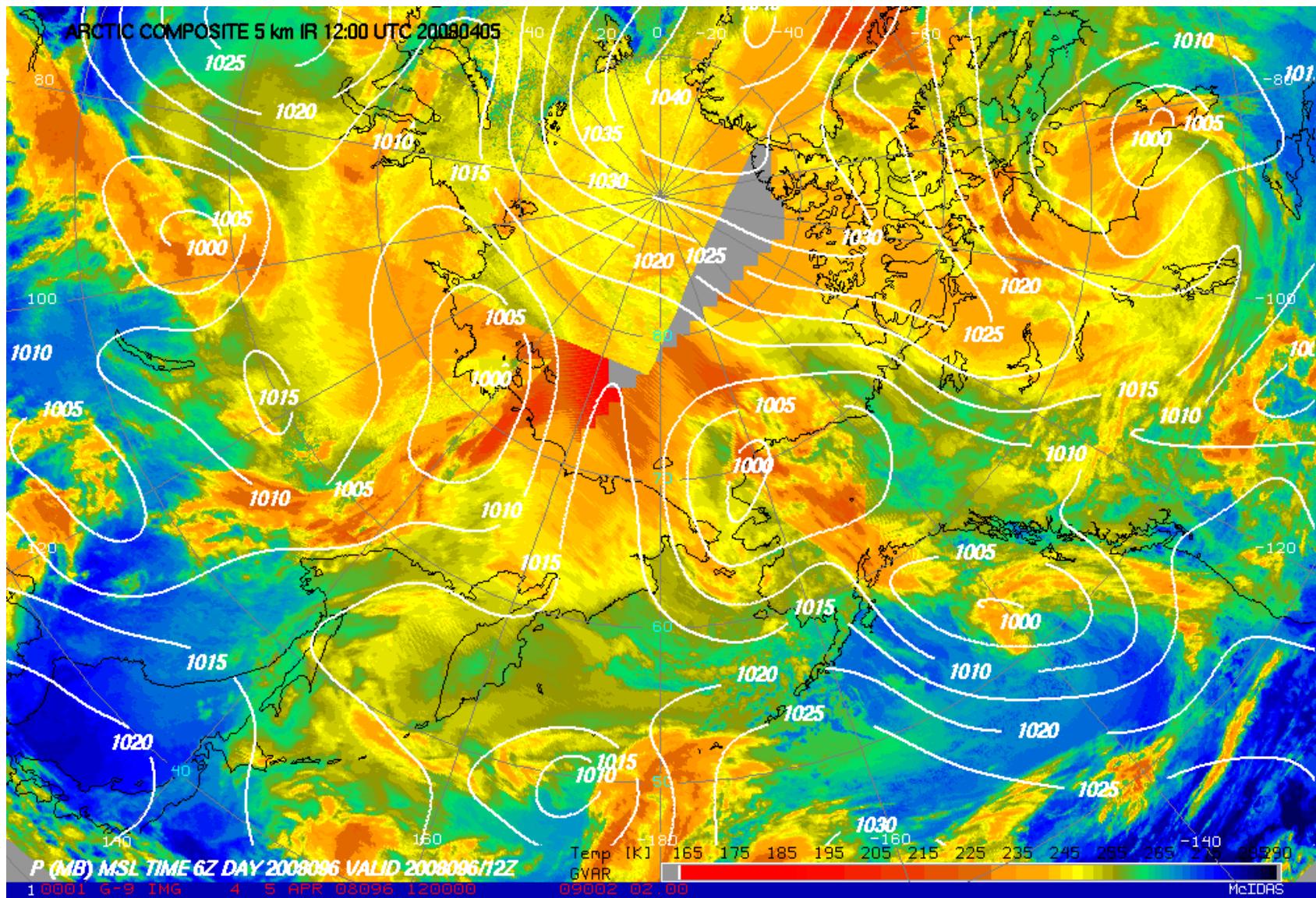
**MONDAY...**CLOUDY. SCATTERED FLURRIES. HIGHS 35 TO 40. WEST WINDS 5 TO 10 MPH. **.MONDAY NIGHT...**MOSTLY CLOUDY. LOWS NEAR 20.

**TUESDAY...**MOSTLY CLOUDY. HIGHS NEAR 35. **.TUESDAY NIGHT...**MOSTLY CLOUDY. LOWS NEAR 15.

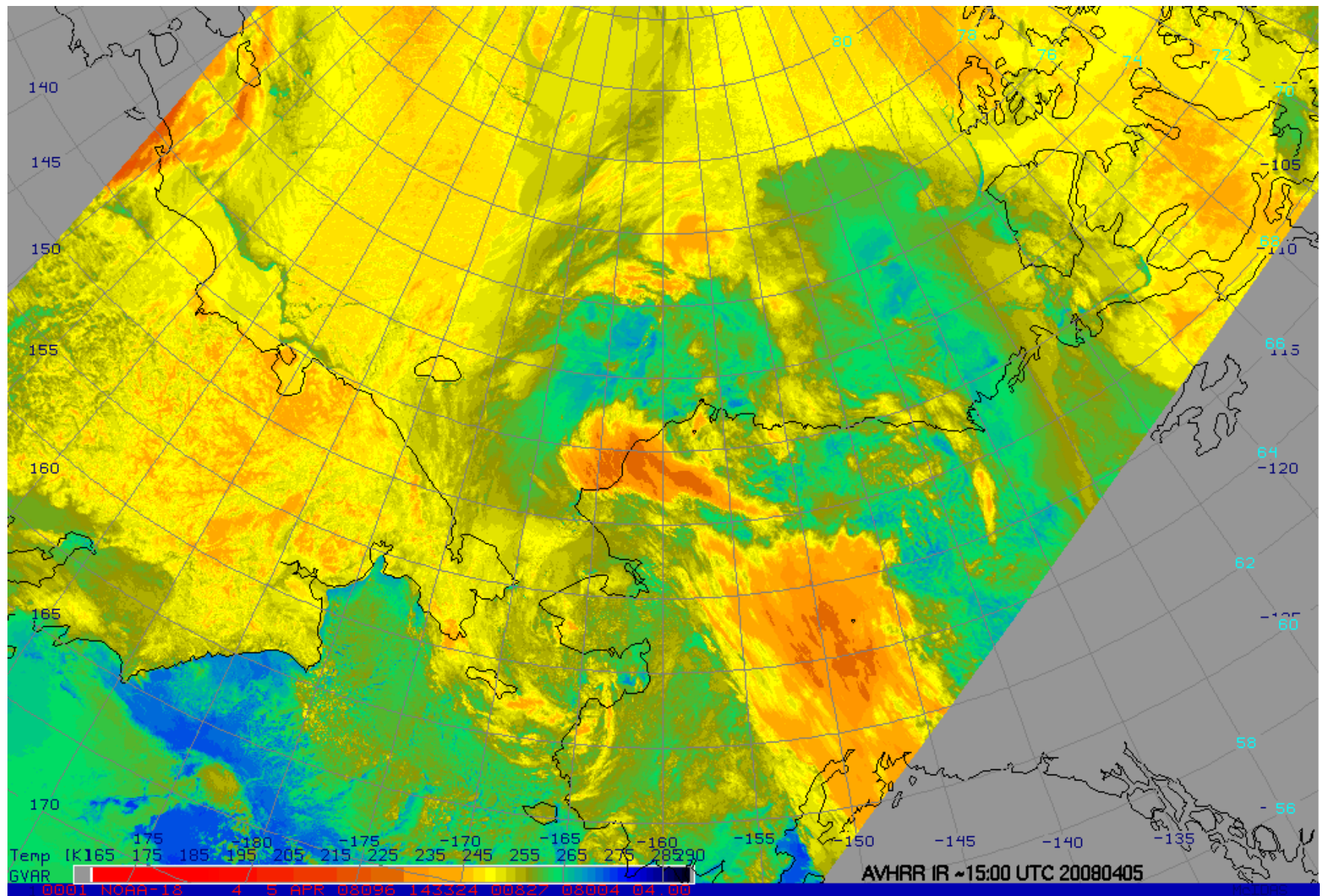
WIND(MPS) T(C) TD(C) VIS(KM) WXC1(CODE) TIME=16 DAY=096

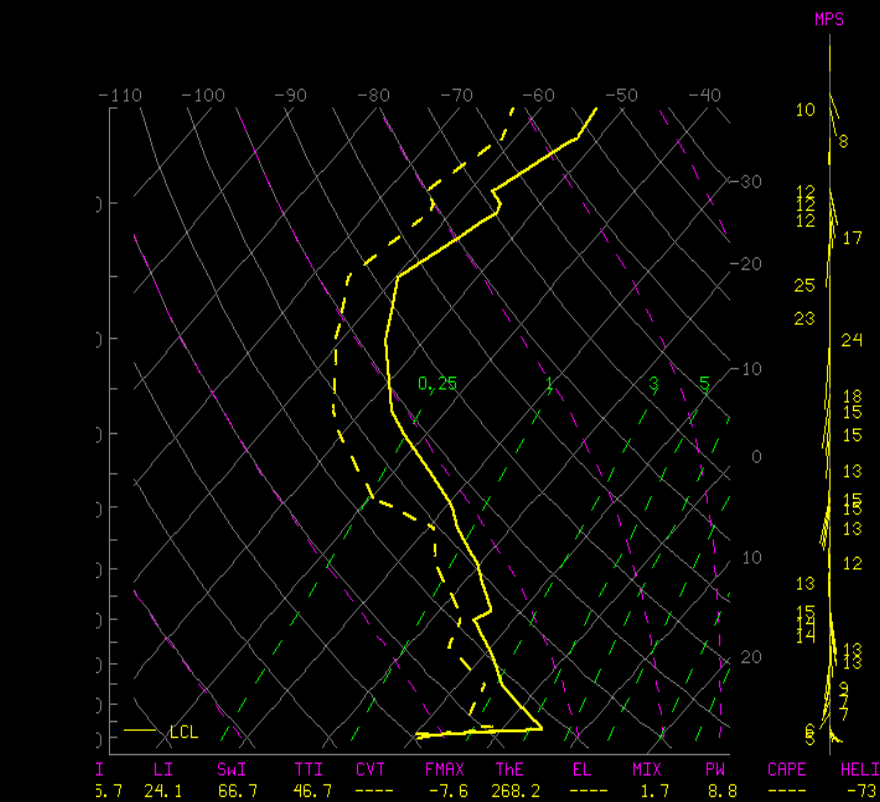
SFC OBS, 16:00 UTC, 20080405



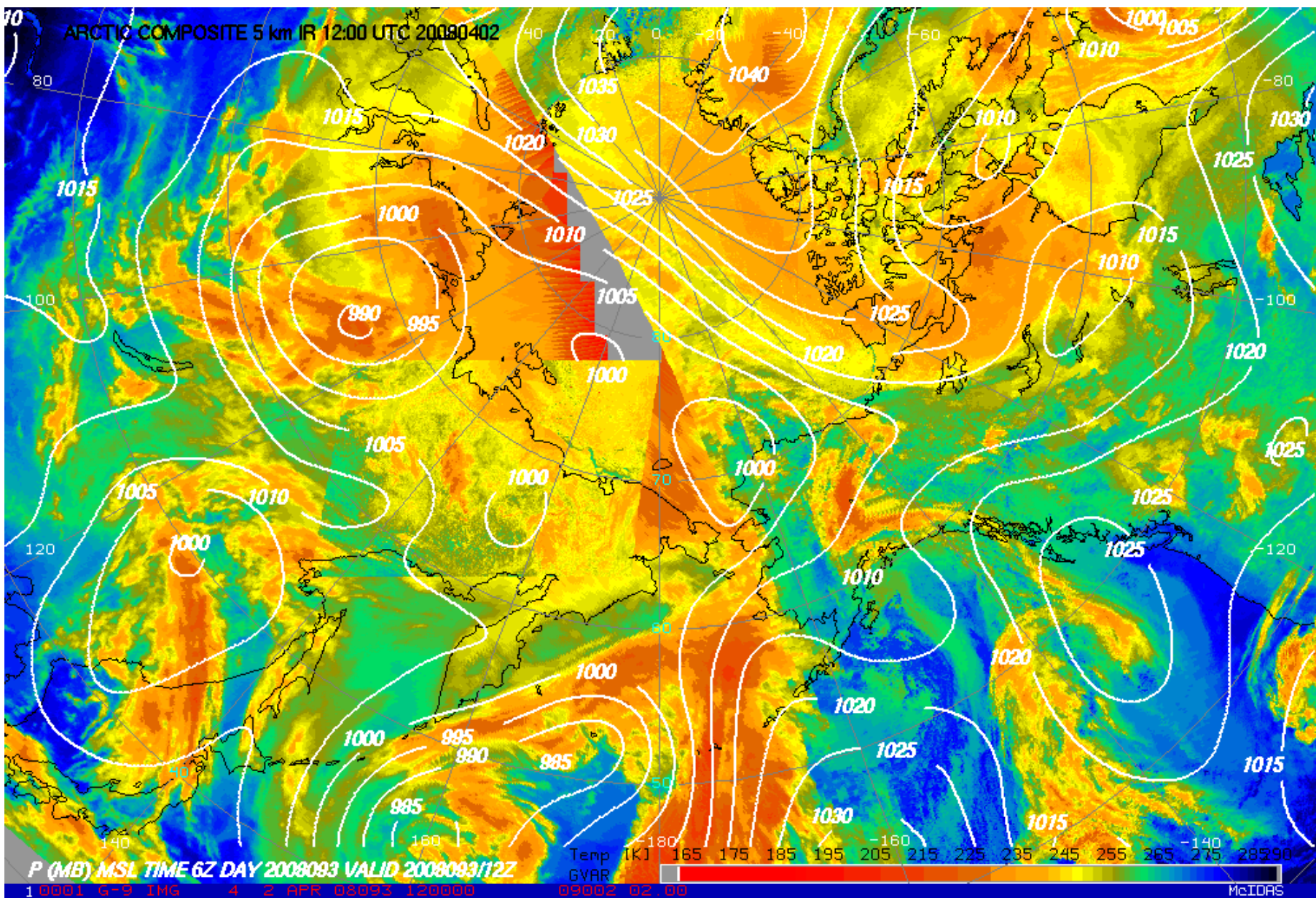








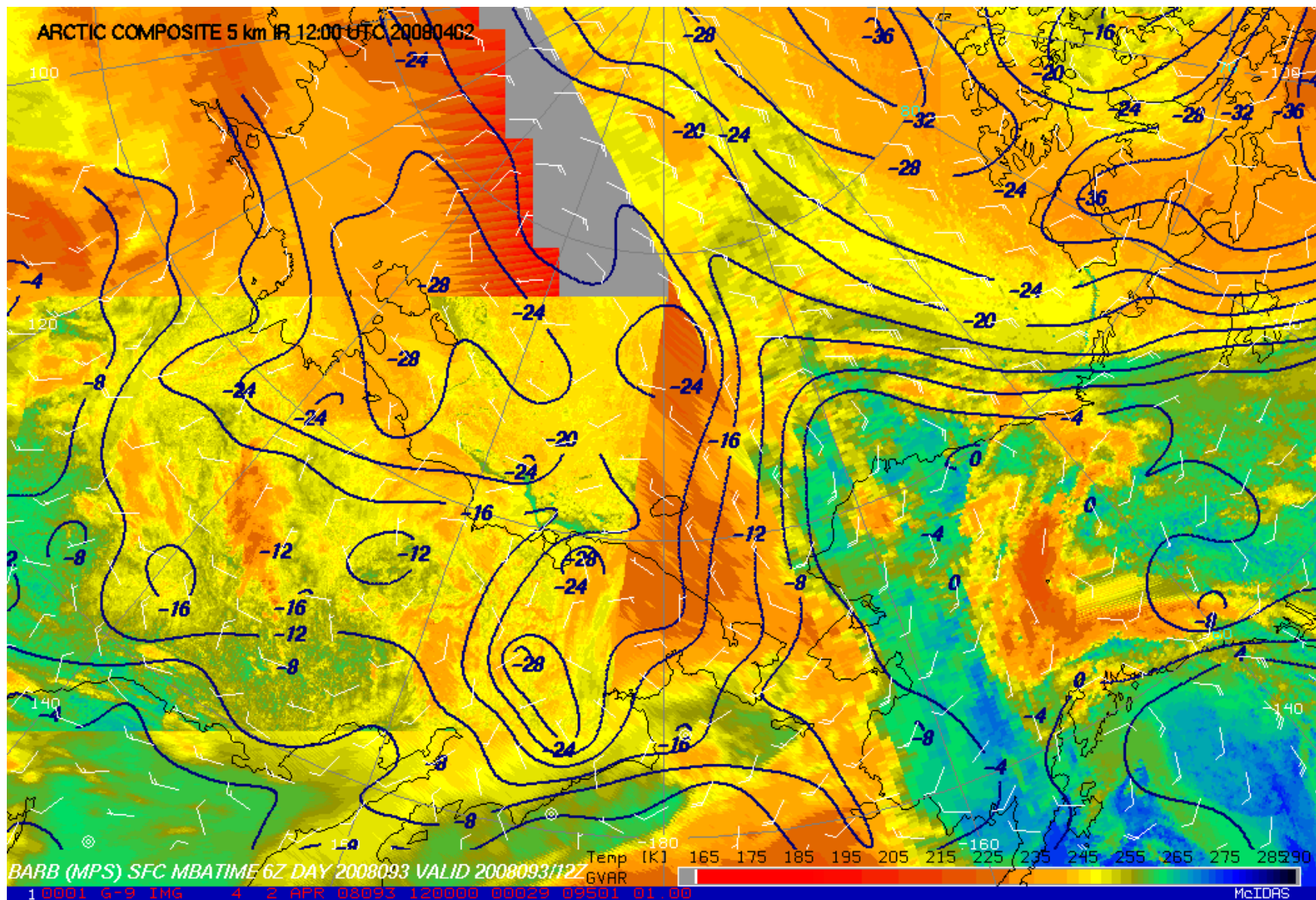




P (MB) MSL TIME 6Z DAY 2008093 VALID 2008093/12Z

1 0001 G-9 IMG 4 2 APR 08093 120000











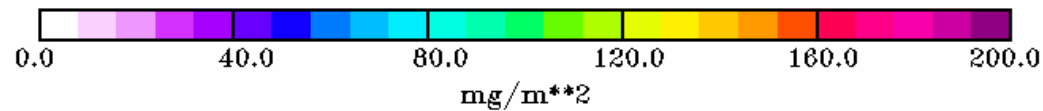
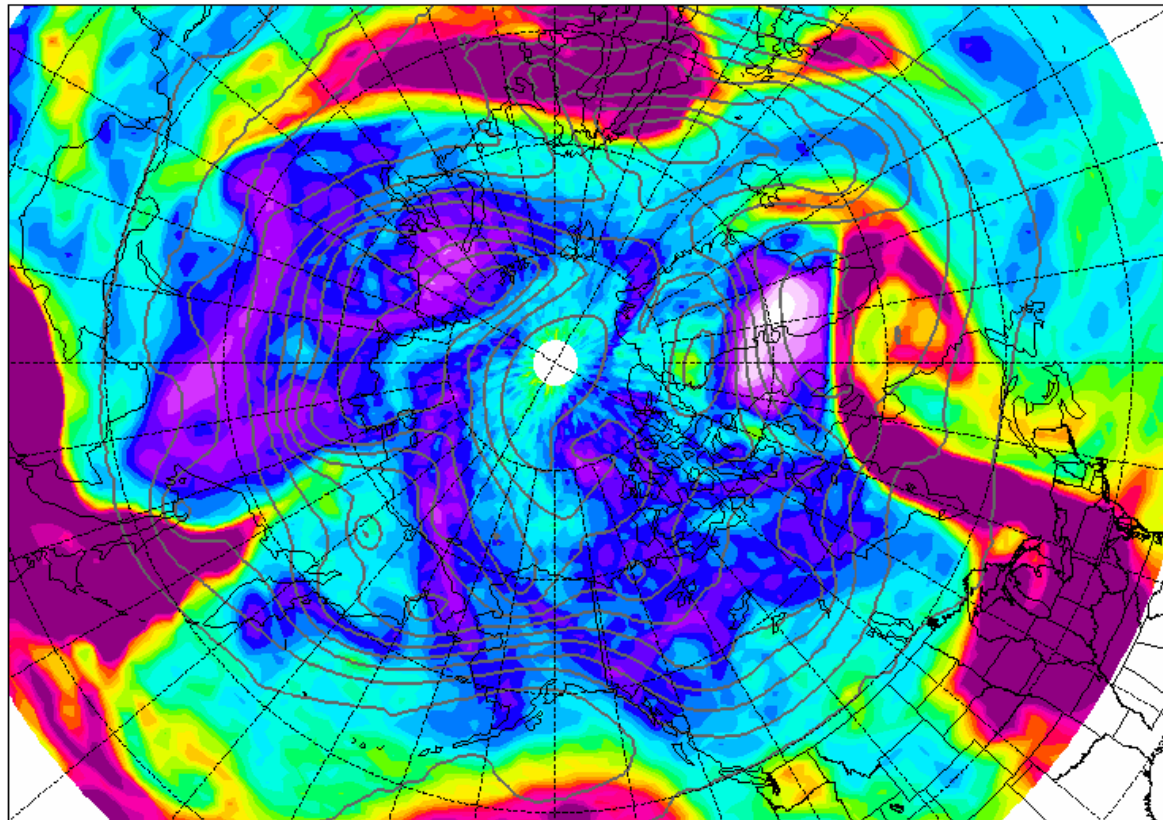
# Total CO, Tue 8, 18hUTC

TOTAL COLUMN OF SUM-CO FOR AGE CLASS 0 - 20 DAYS  
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa

BASED ON GFS ANALYSIS

ANALYSIS 20080405 60000 UTC      ACTUAL 20080408 120000 UTC

MAXIMUM VALUE: 0.113E+04

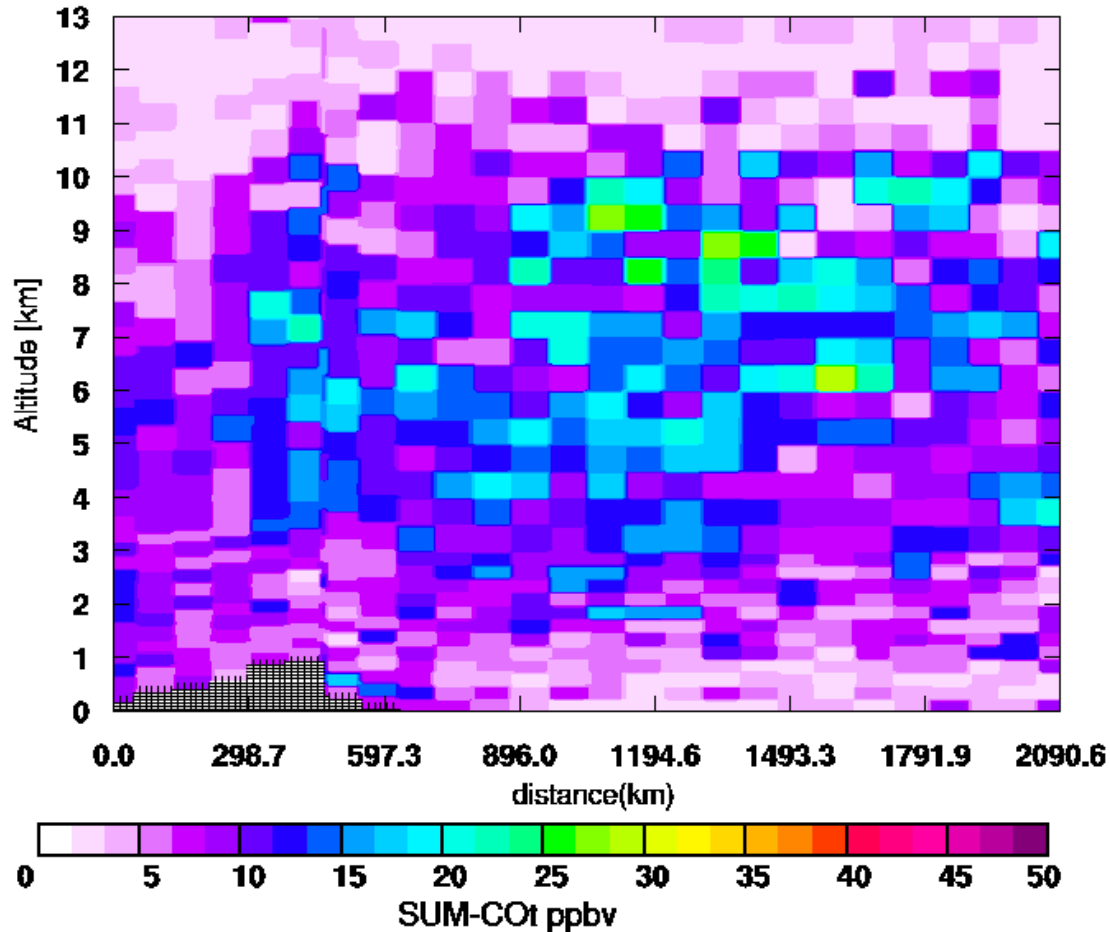


# Total CO, Tue 8, 18hUTC

**CROSS SECTION FROM 65 TO 83 LATITUDE AND -151 TO -153 LONGITUDE**

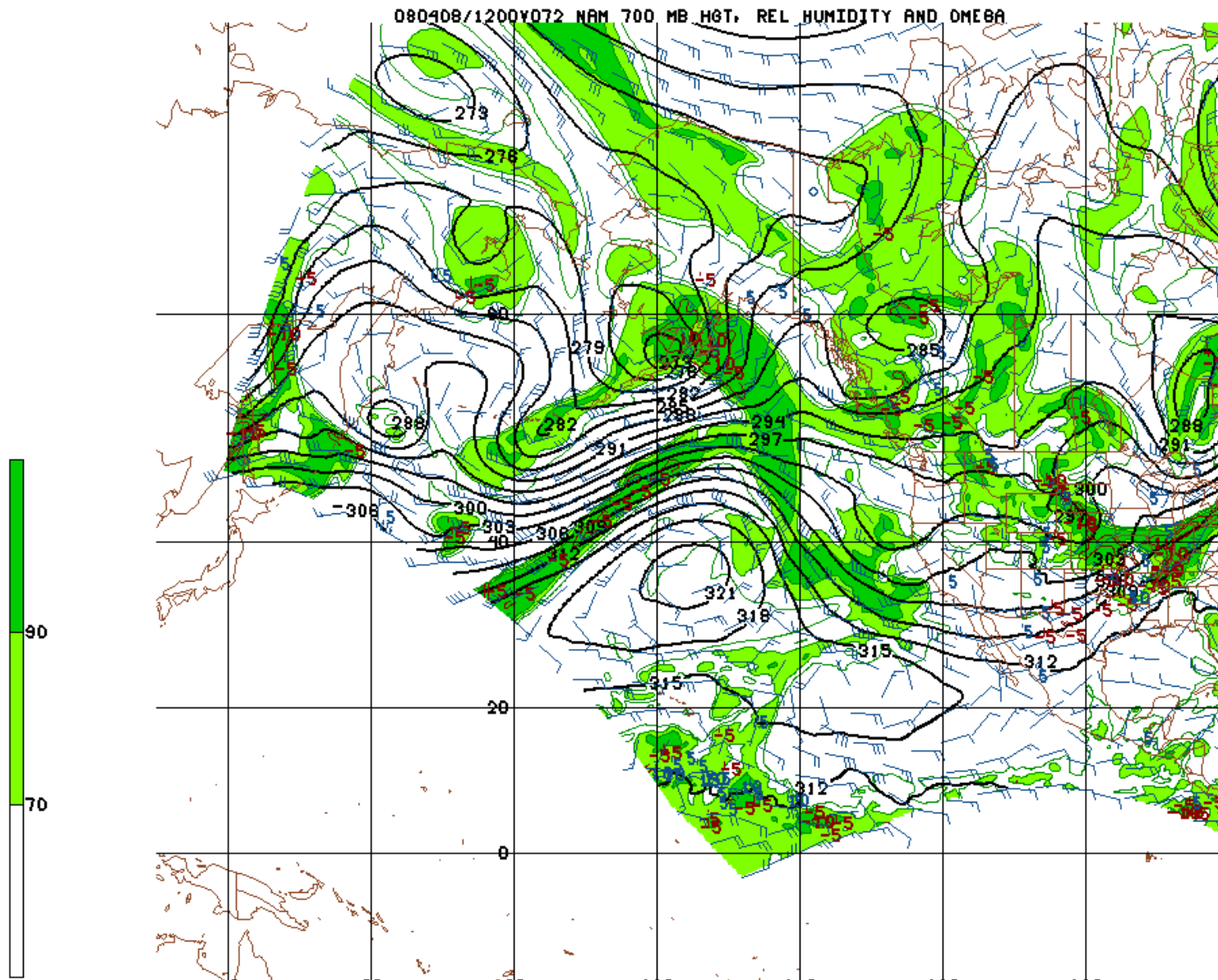
NA-COI MIXING RATIO FOR AGE CLASS 0 - 20.00 DAYS

LATEST ANALYSIS 20080405 60000 UTC ACTUAL TIME 20080408 12

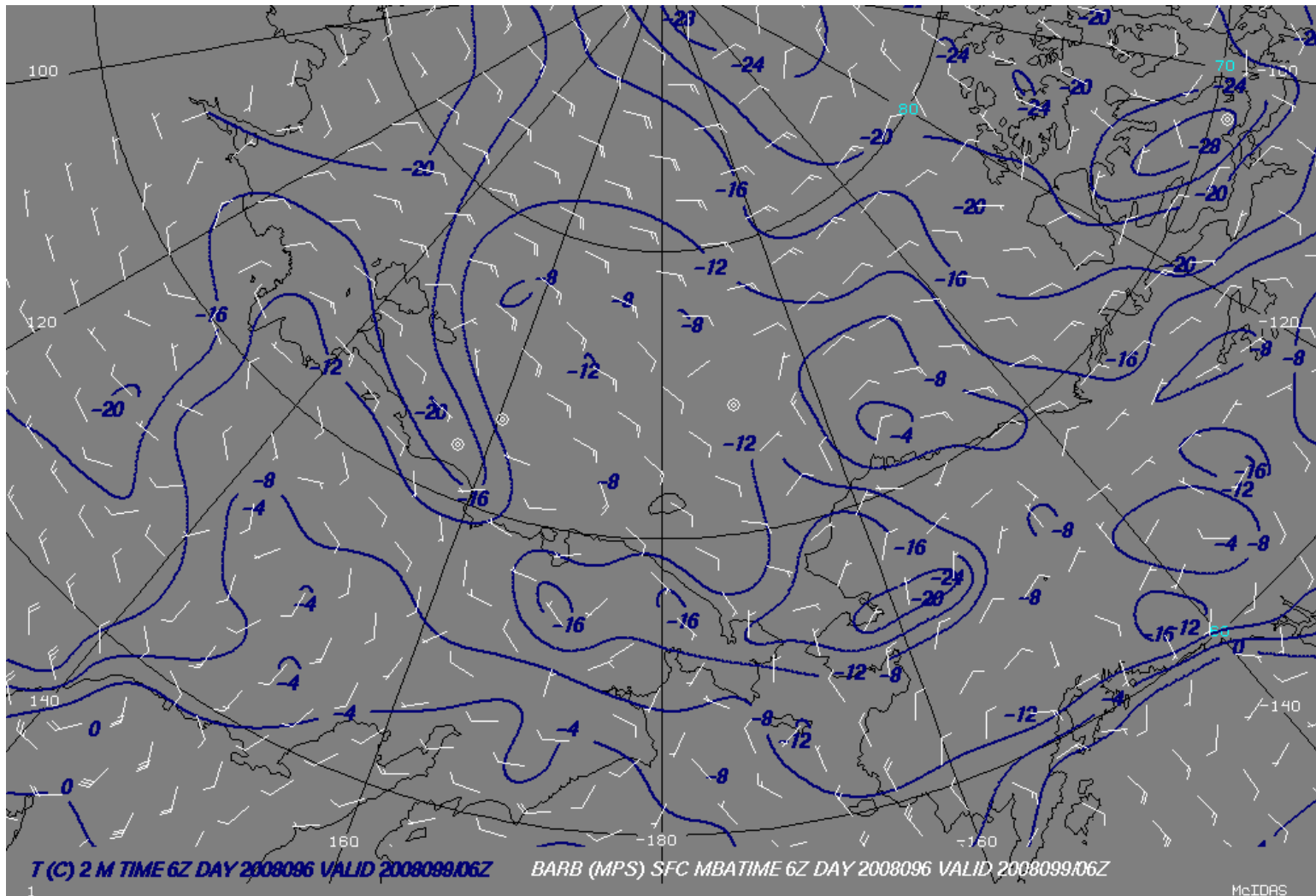




# RH, 700hPa (NAM model)



# Temperature, wind



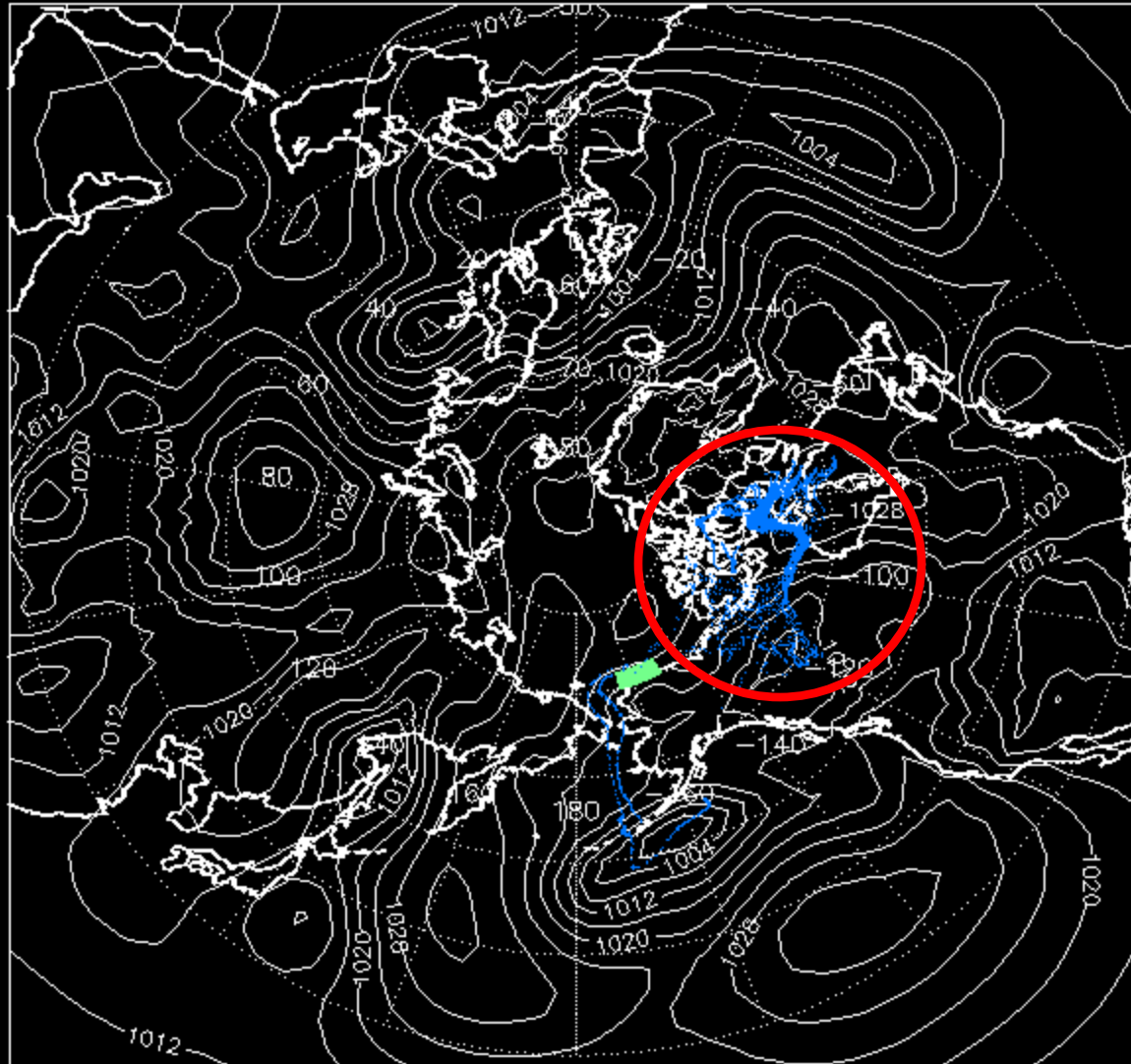


**RAQMS Fairbanks Local  
FX Discussion:**

**00Z 04/09/2008**

**(108hr Fx initialized 12Z 04/04/2008)**

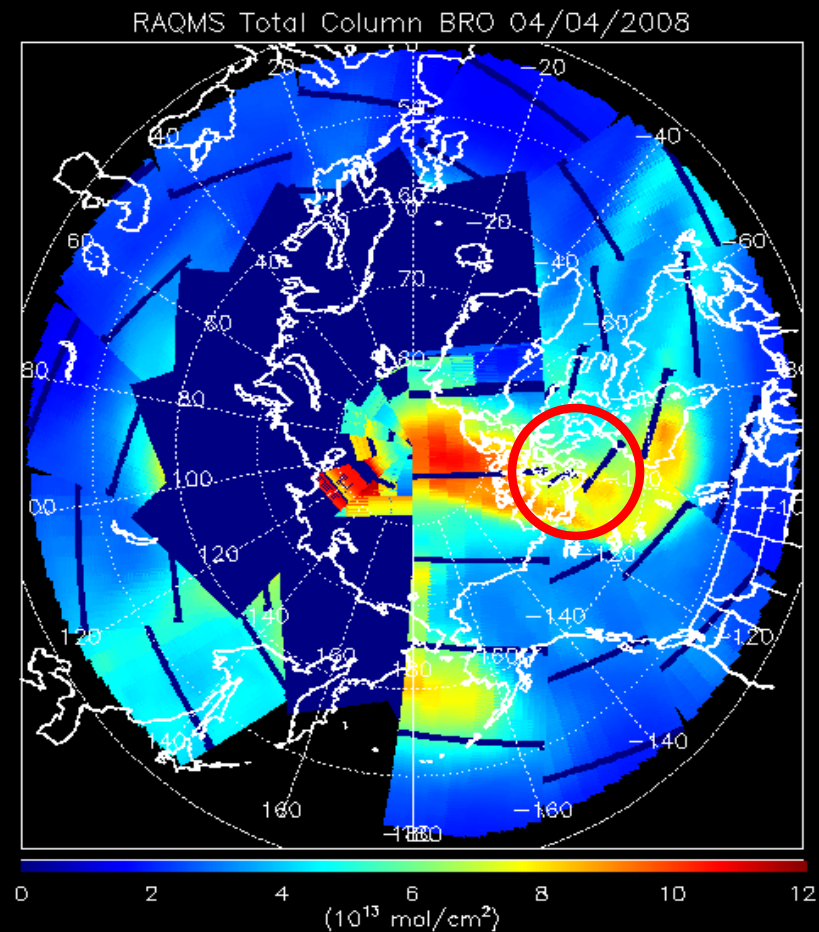
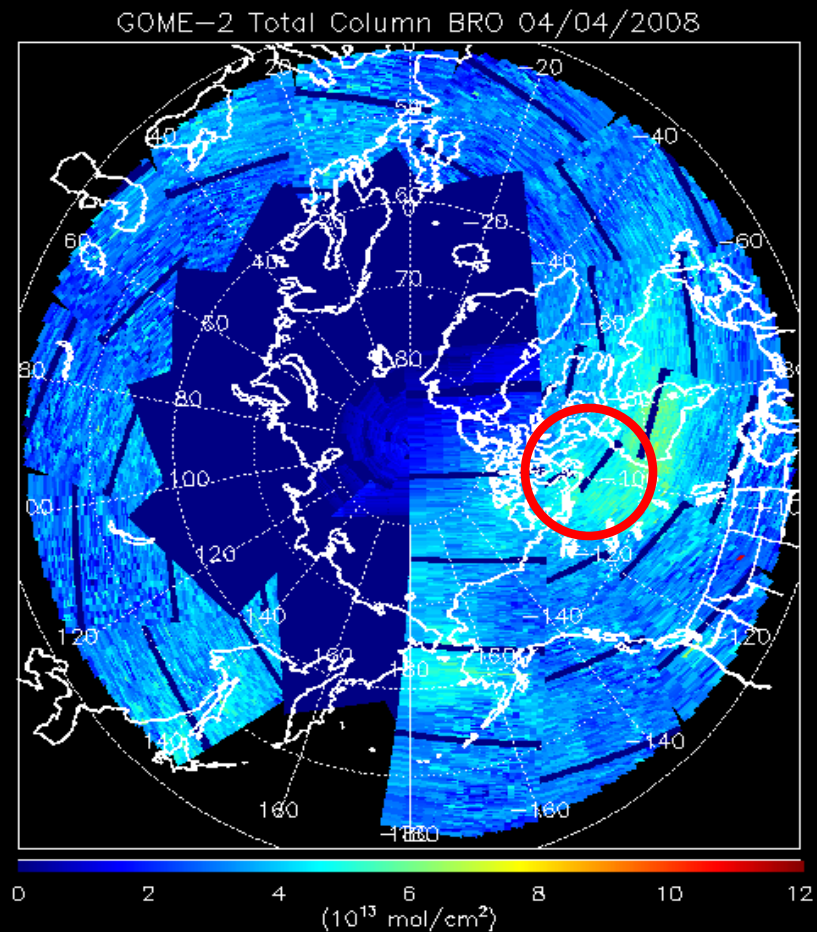
2008040900 Initial (Blue) and Final (Green) Lat/Lon  
(Barrow Parcels below 5km)



Initial (040400Z) and Final (040900Z) Barrow Trajectories

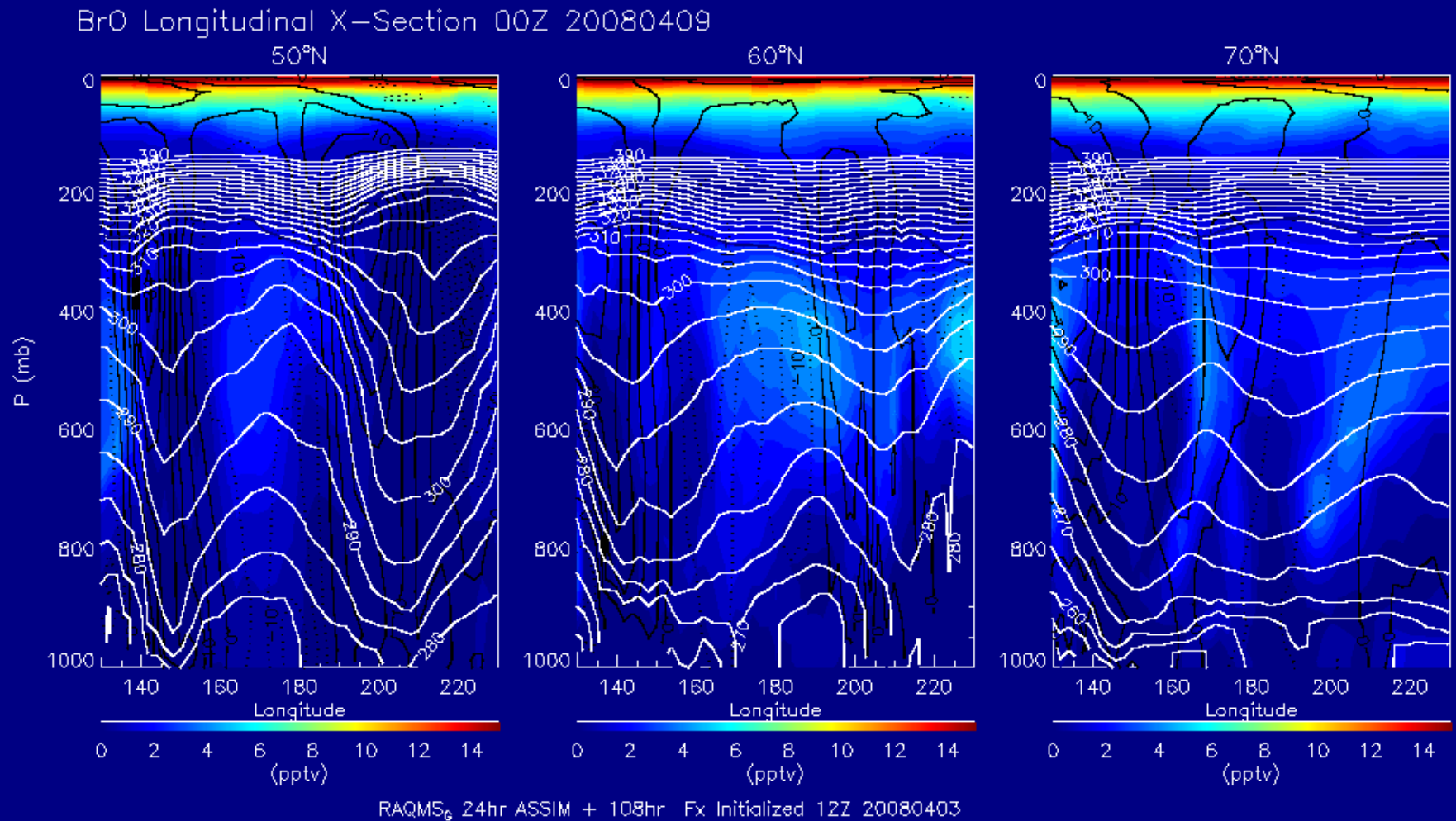


## RAQMS vs GOME2 Total BrO column 04/03/2008



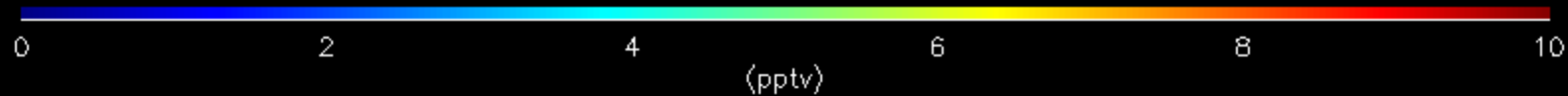
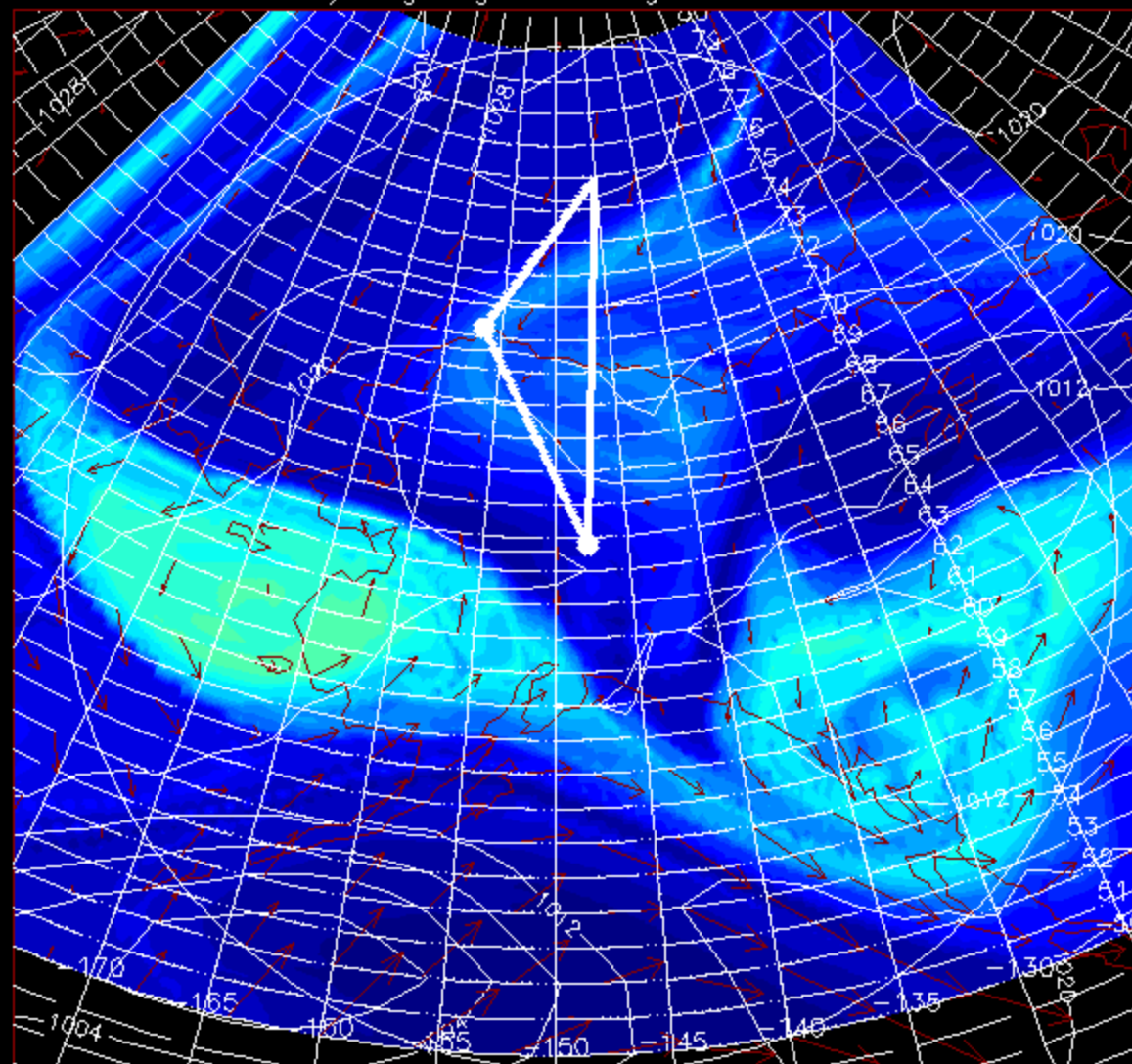
BrO enhancements at initial location of Barrow Parcels

## Bro X-Section 00Z 20080409



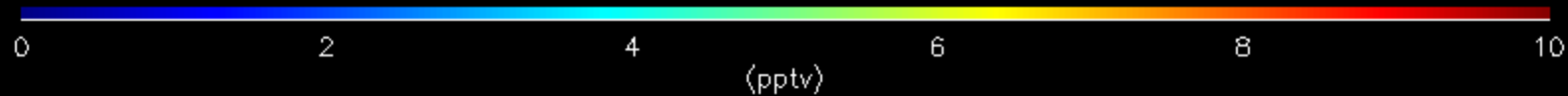
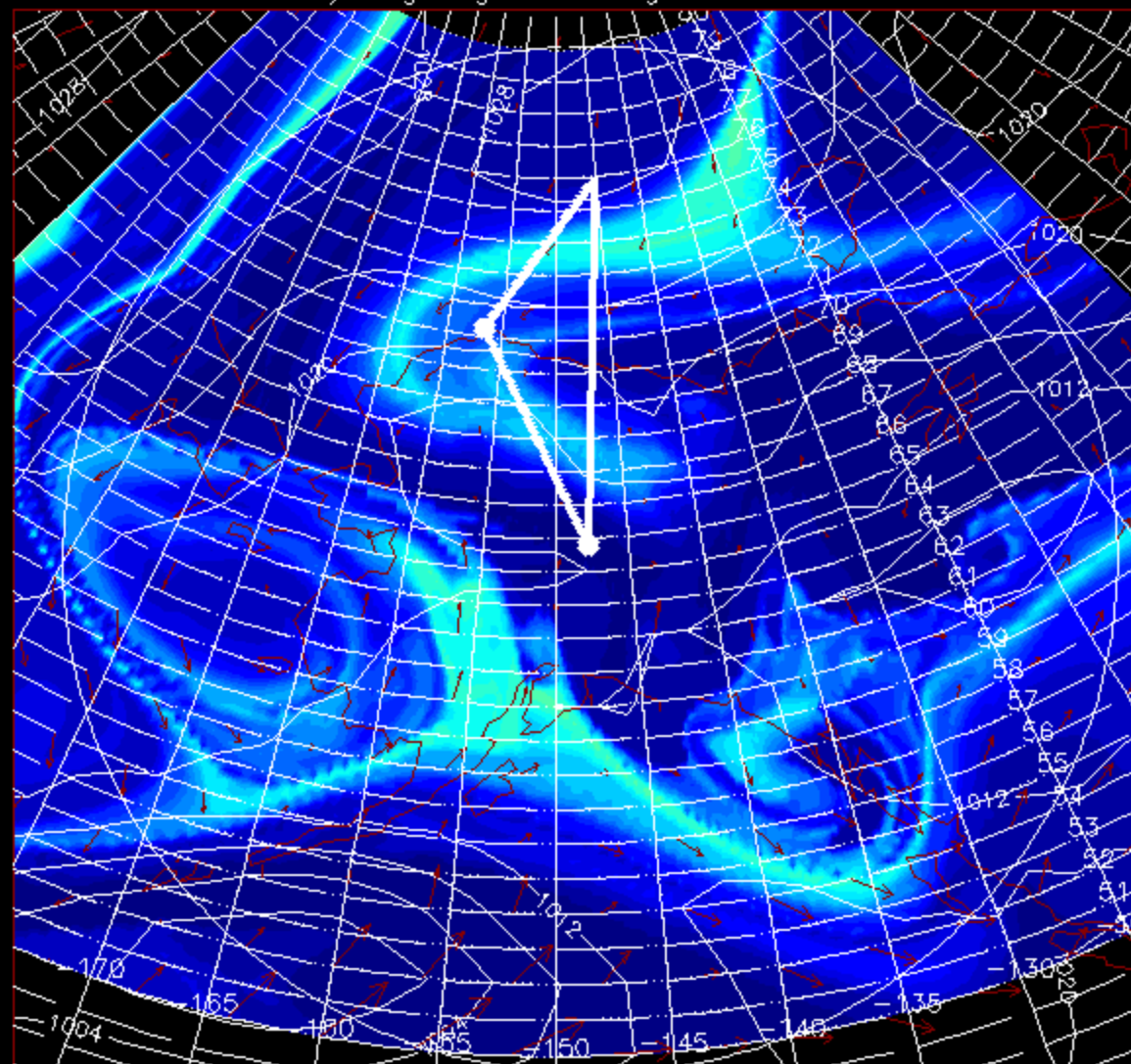
**Tropospheric BrO enhancements are aloft  
(possible artifact of initial overestimate of HBr activation)**

5km 5-day Lagrangian Averaged BrO 2008040900

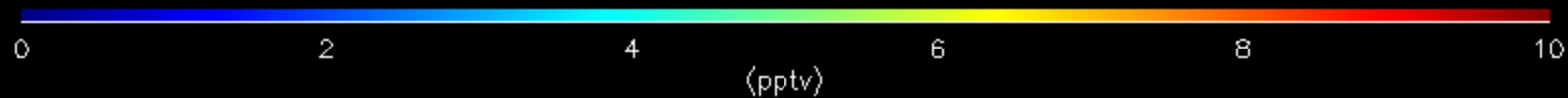
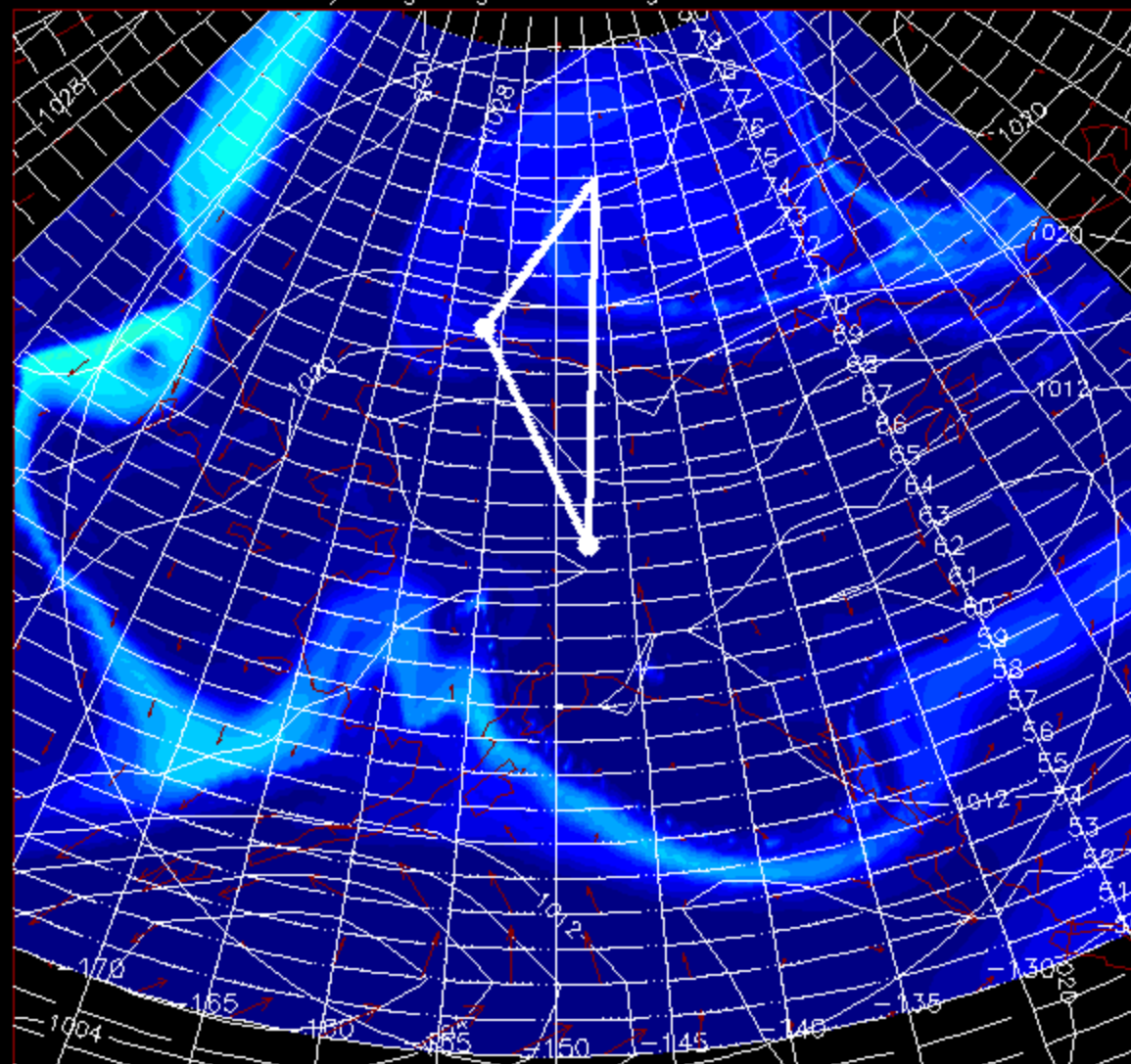




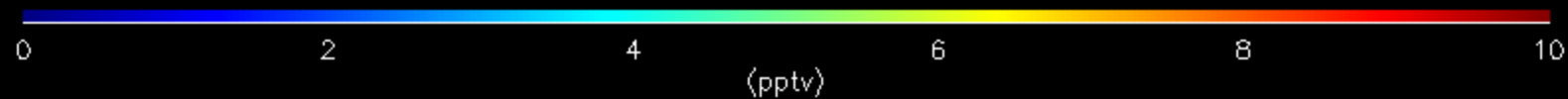
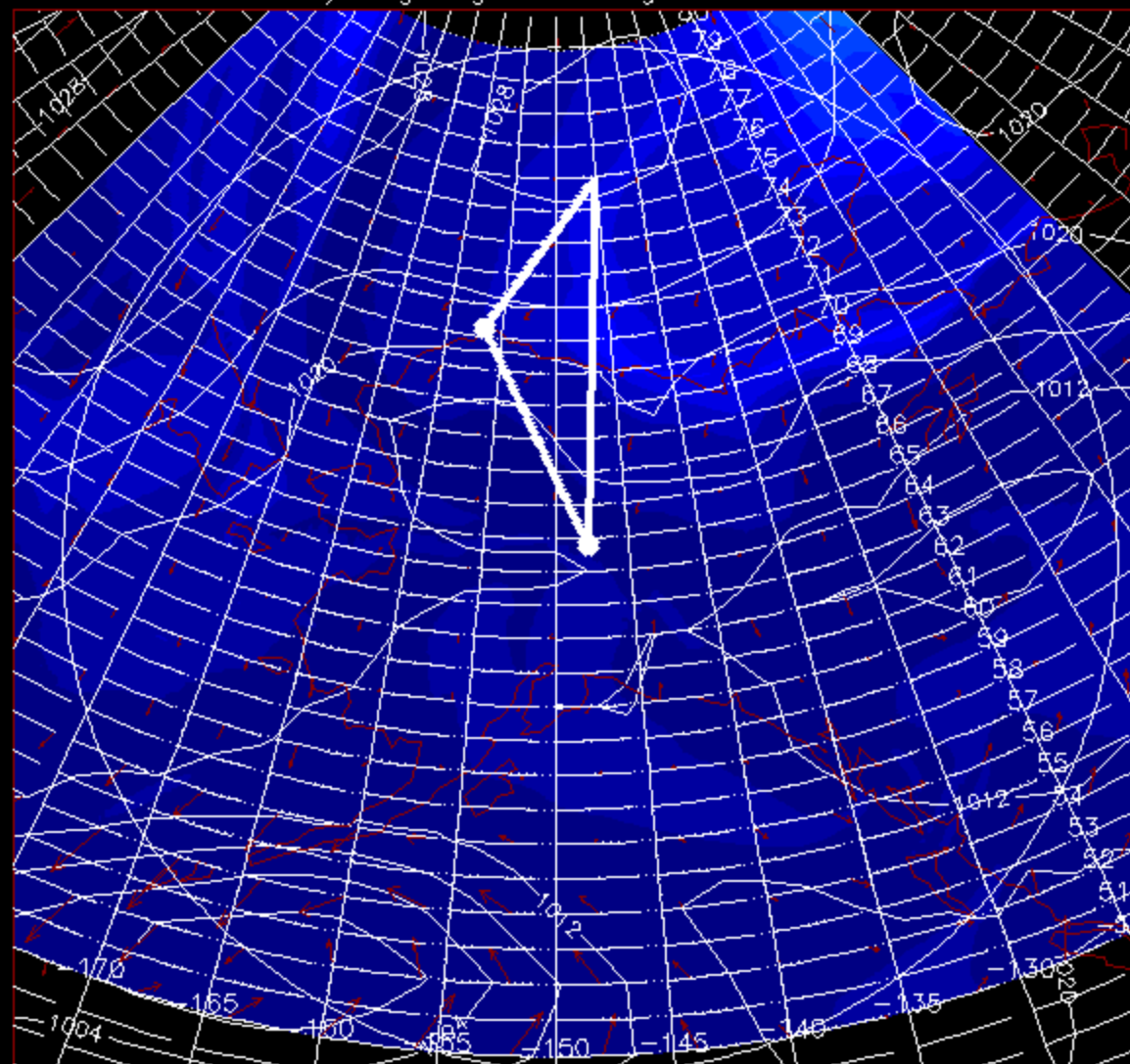
3km 5-day Lagrangian Averaged BrO 2008040900



1km 5-day Lagrangian Averaged BrO 2008040900



SFC 5-day Lagrangian Averaged BrO 2008040900





## Position of the RV Knorr

**Total column of EU-CO for age class all**  
**Analysis @ 20080403. 90000**      **Actual @ 20080407.1200**

